

Water-Data Report 2008

08127000 Elm Creek at Ballinger, TX

Middle Colorado-Concho Basin
Middle Colorado-Elm Subbasin

LOCATION.--Lat 31°44'57", long 99°56'51" referenced to North American Datum of 1927, Runnels County, TX, Hydrologic Unit 12090101, on right bank 1,000 ft upstream from storage dam at Ballinger and 1.9 mi upstream from mouth.

DRAINAGE AREA.--450 mi², of which 63.5 mi² is above Lake Winters Dam.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1932 to current year.

REVISED RECORDS.--WSP 1442: 1935, 1946, 1954. WDR TX-81-3: Drainage area. WDR TX-96-3.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,617.72 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those below 10 cfs and from Apr. 11 to June 24, which are poor. The stage-discharge relation during periods of low flow is affected by wind action and by occasional accumulation of drift on dam. Since water year 1983, at least 10% of contributing drainage area has been regulated. No flow at times most years.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--50 years (water years 1933-82) prior to completion of New Lake Winters, 47.6 ft³/s (34,490 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1906 reached a stage of 14.5 ft, affected by backwater from Colorado River.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1933-1982: Maximum discharge, 50,000 ft³/s, Oct. 13, 1957, gage height, 14.20 ft, from floodmark; no flow at times. Highest stage not affected by backwater from the Colorado River since at least 1904, was that of Oct. 13, 1957, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 89 ft³/s, Mar. 18, 19, gage height, 4.13 ft; minimum daily discharge, 0.00 ft³/s, on many days.

08127000 Elm Creek at Ballinger, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.3	8.0	11	10	9.5	8.3	12	7.5	0.33	0.00	0.00	0.00
2	8.3	8.3	10	10	9.8	8.5	11	7.5	0.31	0.00	0.00	0.00
3	8.7	8.3	9.9	10	9.5	11	11	4.8	0.34	0.00	0.00	0.00
4	9.4	8.0	10	10	9.8	14	11	4.0	0.58	0.00	0.00	0.00
5	8.2	7.5	9.9	10	9.7	20	10	4.0	0.33	0.00	0.00	0.00
6	7.9	7.2	9.2	11	9.4	17	10	3.1	0.13	0.00	0.00	0.00
7	7.5	7.1	9.7	11	9.4	14	9.8	2.7	0.03	0.00	0.00	0.00
8	7.5	7.5	10	11	9.2	12	9.8	2.2	0.00	0.00	0.00	0.00
9	7.5	7.5	9.5	10	9.2	11	9.4	1.8	0.00	0.00	0.00	0.00
10	7.5	7.5	10	10	9.2	11	9.8	1.3	0.00	0.00	0.00	0.00
11	7.0	8.3	10	10	9.8	10	9.0	0.65	0.00	0.00	0.00	0.00
12	6.4	8.5	12	10	9.5	10	9.2	0.61	0.00	0.00	0.00	0.00
13	6.4	9.0	13	10	9.1	9.8	9.2	0.55	0.00	0.00	0.00	0.00
14	6.4	8.8	12	10	9.2	9.2	8.3	0.65	0.00	0.00	0.00	0.00
15	7.9	8.3	12	10	9.2	9.2	7.5	0.46	0.00	0.00	0.00	0.00
16	8.7	8.0	11	10	9.7	8.9	7.5	0.43	0.00	0.00	0.00	0.00
17	9.5	8.3	11	10	10	9.1	7.5	0.43	0.00	0.00	0.00	0.00
18	8.8	8.3	11	10	11	60	7.5	0.40	0.00	0.00	0.00	0.00
19	8.3	8.6	11	10	12	83	7.5	0.37	0.00	0.00	0.00	0.00
20	7.9	8.7	11	10	11	54	7.5	0.32	0.00	0.00	0.00	0.00
21	7.5	8.8	11	10	10	33	7.5	0.27	0.00	0.00	0.00	0.00
22	7.7	8.3	11	10	10	25	7.5	0.21	0.00	0.00	0.00	0.00
23	7.2	8.3	10	10	9.6	24	7.5	0.14	0.00	0.00	0.00	0.00
24	7.1	9.5	10	11	9.2	22	7.5	0.11	0.00	0.00	0.00	0.00
25	7.4	15	10	12	8.8	19	6.9	0.07	0.00	0.00	0.00	0.00
26	7.5	15	10	11	8.3	18	5.2	0.03	0.00	0.00	0.00	0.00
27	7.5	19	10	13	8.3	17	15	0.06	0.00	0.00	0.00	0.00
28	7.5	15	10	13	8.3	15	7.7	0.12	0.00	0.00	0.00	0.00
29	7.8	12	10	14	8.4	14	7.5	0.13	0.00	0.00	0.00	0.00
30	8.3	11	10	11	---	13	7.5	0.18	0.00	0.00	0.00	0.00
31	8.3	---	10	9.4	---	13	---	0.24	---	0.00	0.00	---
Total	241.9	283.6	325.2	327.4	276.1	603.0	264.3	45.33	2.05	0.00	0.00	0.00
Mean	7.80	9.45	10.5	10.6	9.52	19.5	8.81	1.46	0.07	0.00	0.00	0.00
Max	9.5	19	13	14	12	83	15	7.5	0.58	0.00	0.00	0.00
Min	6.4	7.1	9.2	9.4	8.3	8.3	5.2	0.03	0.00	0.00	0.00	0.00
Ac-ft	480	563	645	649	548	1,200	524	90	4.1	0.00	0.00	0.00
Cfs/m	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.00	0.00	0.00	0.00	0.00
In.	0.02	0.02	0.03	0.03	0.02	0.05	0.02	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2008², BY WATER YEAR (WY)

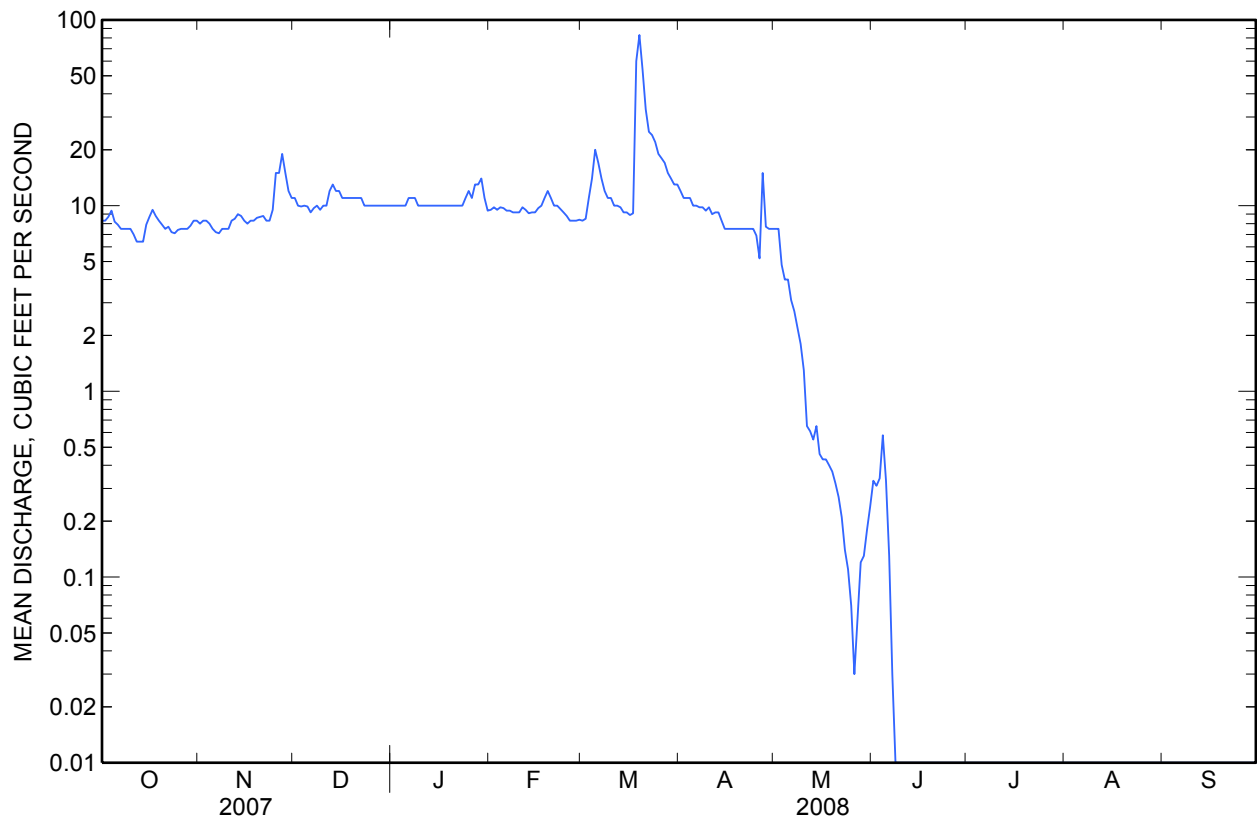
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	27.9	28.9	33.5	15.7	54.3	35.6	18.6	58.6	108	16.3	17.1	42.9
Max	165	426	576	164	911	268	76.4	655	770	157	104	760
(WY)	(1987)	(2005)	(1992)	(1992)	(1992)	(1992)	(1992)	(1994)	(1997)	(2002)	(2005)	(1996)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1984)	(1989)	(1999)	(2000)	(2000)	(2000)	(2000)	(1984)	(2001)	(1984)	(1983)	(1983)

08127000 Elm Creek at Ballinger, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1983 - 2008 ^z	
Annual total	29,703.85		2,368.88			
Annual mean	81.4		6.47		37.9	
Highest annual mean					188	1992
Lowest annual mean					0.96	1984
Highest daily mean	5,710	Jun 25	83	Mar 19	12,400	Sep 15, 1996
Lowest daily mean	0.00	Jan 1	0.00	Jun 8	0.00	Jul 20, 1983
Annual seven-day minimum	0.00	Jan 1	0.00	Jun 8	0.00	Jul 20, 1983
Maximum peak flow			89	Mar 18	16,700	Jun 23, 1997
Maximum peak stage			4.13	Mar 18	9.06	Jun 23, 1997
Annual runoff (ac-ft)	58,920		4,700		27,440	
Annual runoff (cfs)	0.181		0.014		0.084	
Annual runoff (inches)	2.46		0.20		1.14	
10 percent exceeds	87		11		53	
50 percent exceeds	9.5		7.5		2.3	
90 percent exceeds	0.00		0.00		0.00	

^z Period of regulated streamflow.



08127000 Elm Creek at Ballinger, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: October 1957 to September 1991, March 2001 to May 2003.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1991 (local observer), February 2001 to current year.

WATER TEMPERATURE: October 1967 to September 1997 (local observer), February 2001 to current year.

INSTRUMENTATION.--Water-quality monitor since Feb. 9, 2001.

REMARKS.--Water temperature records fair. Specific conductance records good. Interruptions or periods of missing record may be due to instrument failure, or flow conditions, or data corrections exceeding allowable criteria, which were deleted. Other than no flow conditions, minimum and maximum extremes may have occurred during period of missing record.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4760 microsiemens/cm, Sept. 09, 2007; minimum, 74 microsiemens/cm, July 4, 2002.

WATER TEMPERATURE: Maximum daily, 35.0°C, July 19, 1986; minimum daily, 0.0°C, Jan. 8, 1968, Jan. 10, 13, 1973, and Jan. 11, 14, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,610 microsiemens/cm, June 7; minimum, 1,730 microsiemens/cm, Oct. 1.

WATER TEMPERATURE: Maximum, 30.0°C, May 24; minimum, 3.5°C, Jan. 20.

08127000 Elm Creek at Ballinger, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	1,790	1,730	1,760	2,300	2,290	2,300	2,300	2,270	2,280	2,390	2,360	2,380
2	1,840	1,780	1,810	2,320	2,290	2,300	2,280	2,260	2,270	2,400	2,360	2,380
3	1,840	1,820	1,830	2,310	2,270	2,300	2,280	2,250	2,270	2,400	2,370	2,390
4	1,870	1,820	1,840	2,320	2,280	2,300	2,270	2,250	2,260	2,400	2,380	2,390
5	1,880	1,840	1,860	2,300	2,260	2,290	2,270	2,240	2,260	2,430	2,380	2,400
6	1,900	1,870	1,880	2,290	2,260	2,290	2,260	2,240	2,250	2,430	2,390	2,410
7	1,920	1,880	1,900	2,310	2,290	2,300	2,260	2,240	2,250	2,420	2,390	2,400
8	1,950	1,900	1,920	2,310	2,280	2,300	2,250	2,210	2,230	2,410	2,380	2,390
9	1,950	1,890	1,930	2,310	2,280	2,290	2,250	2,220	2,230	2,410	2,390	2,400
10	1,950	1,900	1,930	2,300	2,280	2,300	2,250	2,230	2,250	2,410	2,380	2,400
11	1,980	1,940	1,960	2,300	2,290	2,290	2,260	2,230	2,250	2,420	2,380	2,400
12	1,990	1,970	1,980	2,300	2,230	2,290	2,270	2,240	2,250	2,420	2,390	2,400
13	2,000	1,970	1,990	2,300	2,270	2,290	2,270	2,240	2,260	2,430	2,400	2,410
14	2,020	1,990	2,000	2,300	2,270	2,280	2,280	2,260	2,260	2,430	2,400	2,410
15	2,020	1,950	2,000	2,300	2,280	2,290	2,300	2,260	2,280	2,440	2,410	2,420
16	2,020	1,980	2,010	2,320	2,300	2,310	2,320	2,290	2,300	2,430	2,410	2,420
17	2,030	2,000	2,020	2,320	2,290	2,310	2,330	2,300	2,320	2,440	2,420	2,430
18	2,050	1,990	2,030	2,320	2,280	2,300	2,340	2,300	2,320	2,450	2,420	2,430
19	2,060	2,030	2,050	2,320	2,300	2,320	2,340	2,310	2,330	2,450	2,410	2,430
20	2,060	2,040	2,050	2,320	2,310	2,320	2,360	2,330	2,340	2,450	2,410	2,430
21	2,080	2,030	2,060	2,340	2,310	2,320	2,370	2,350	2,360	2,440	2,410	2,420
22	2,080	2,020	2,070	2,350	2,320	2,340	2,380	2,350	2,360	2,430	2,400	2,420
23	2,090	2,030	2,070	2,360	2,340	2,350	2,380	2,350	2,370	2,430	2,390	2,420
24	2,280	2,070	2,180	2,370	2,340	2,360	2,380	2,360	2,370	2,420	2,370	2,410
25	2,280	2,260	2,270	2,350	2,310	2,330	2,380	2,350	2,370	2,440	2,380	2,410
26	2,300	2,270	2,280	2,330	2,300	2,320	2,380	2,360	2,380	2,430	2,370	2,400
27	2,300	2,280	2,290	2,330	2,300	2,320	2,380	2,370	2,380	2,410	2,380	2,390
28	2,310	2,270	2,290	2,330	2,300	2,320	2,390	2,360	2,370	2,390	2,370	2,380
29	2,310	2,280	2,300	2,340	2,310	2,320	2,390	2,360	2,370	2,380	2,360	2,370
30	2,310	2,280	2,300	2,330	2,290	2,310	2,380	2,360	2,370	2,380	2,350	2,370
31	2,310	2,280	2,300	---	---	---	2,390	2,360	2,380	2,390	2,350	2,370
Month	2,310	1,730	2,040	2,370	2,230	2,310	2,390	2,210	2,310	2,450	2,350	2,400

08127000 Elm Creek at Ballinger, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

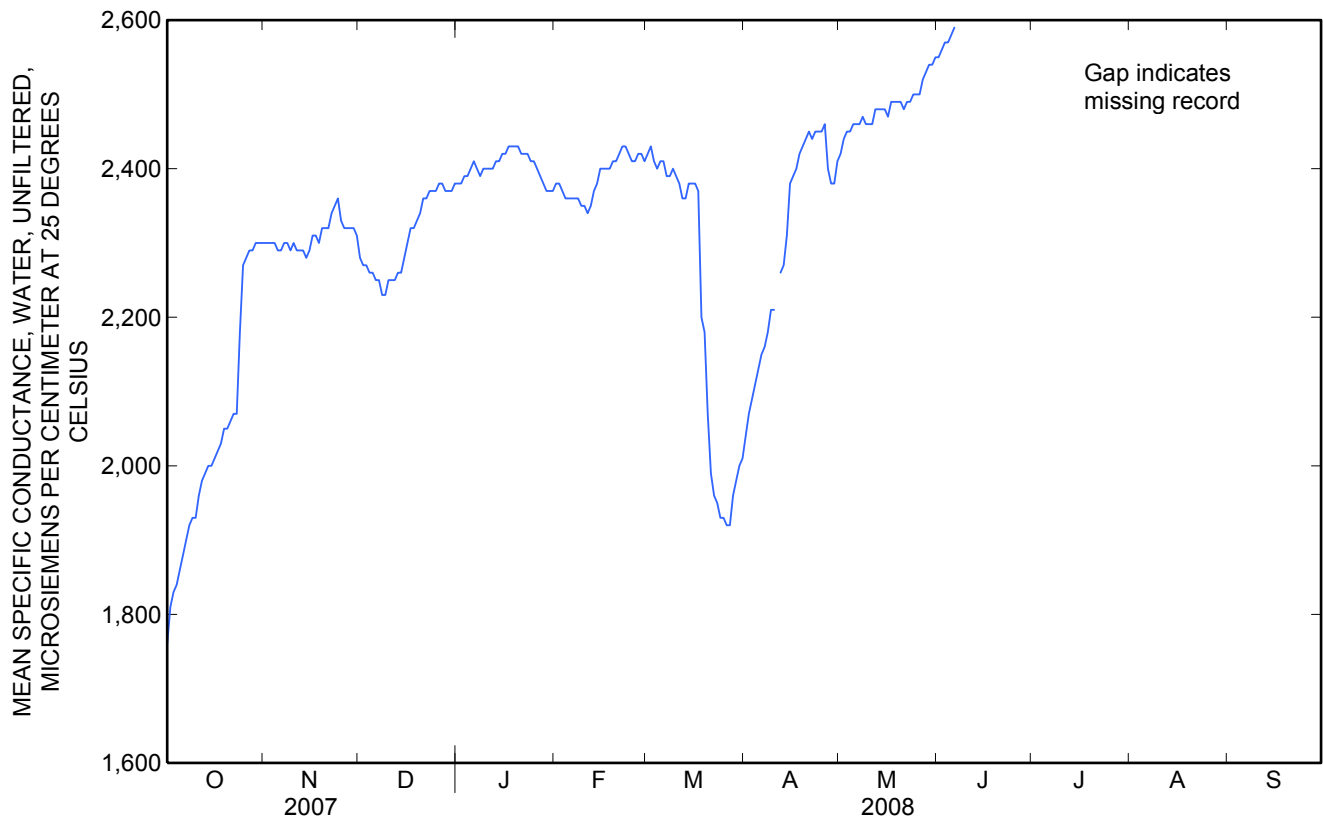
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2,400	2,370	2,380	2,440	2,370	2,420	2,060	2,010	2,040	2,430	2,400	2,420
2	2,400	2,370	2,380	2,440	2,380	2,430	2,080	2,050	2,070	2,460	2,420	2,440
3	2,380	2,350	2,370	2,430	2,370	2,410	2,100	2,080	2,090	2,460	2,430	2,450
4	2,380	2,340	2,360	2,430	2,370	2,400	2,120	2,090	2,110	2,460	2,430	2,450
5	2,370	2,340	2,360	2,420	2,400	2,410	2,150	2,120	2,130	2,460	2,440	2,460
6	2,370	2,350	2,360	2,430	2,380	2,410	2,180	2,130	2,150	2,470	2,450	2,460
7	2,380	2,350	2,360	2,400	2,380	2,390	2,180	2,140	2,160	2,470	2,450	2,460
8	2,370	2,350	2,360	2,410	2,390	2,390	2,200	2,160	2,180	2,480	2,430	2,470
9	2,360	2,340	2,350	2,410	2,390	2,400	2,220	2,200	2,210	2,480	2,440	2,460
10	2,360	2,330	2,350	2,400	2,380	2,390	2,220	2,200	2,210	2,480	2,440	2,460
11	2,350	2,330	2,340	2,400	2,360	2,380	---	---	---	2,490	2,440	2,460
12	2,380	2,310	2,350	2,380	2,340	2,360	2,270	2,240	2,260	2,500	2,460	2,480
13	2,380	2,340	2,370	2,380	2,330	2,360	2,280	2,260	2,270	2,500	2,460	2,480
14	2,400	2,340	2,380	2,390	2,360	2,380	2,390	2,260	2,310	2,500	2,460	2,480
15	2,420	2,380	2,400	2,400	2,360	2,380	2,390	2,360	2,380	2,500	2,450	2,480
16	2,420	2,380	2,400	2,390	2,360	2,380	2,400	2,390	2,390	2,490	2,450	2,470
17	2,400	2,380	2,400	2,390	2,320	2,370	2,420	2,390	2,400	2,500	2,470	2,490
18	2,420	2,360	2,400	2,370	2,030	2,200	2,430	2,410	2,420	2,500	2,470	2,490
19	2,420	2,400	2,410	2,300	2,070	2,180	2,450	2,420	2,430	2,500	2,460	2,490
20	2,420	2,400	2,410	2,100	2,020	2,070	2,450	2,430	2,440	2,520	2,460	2,490
21	2,440	2,400	2,420	2,020	1,940	1,990	2,470	2,430	2,450	2,500	2,470	2,480
22	2,440	2,390	2,430	1,980	1,940	1,960	2,460	2,420	2,440	2,500	2,480	2,490
23	2,440	2,400	2,430	1,980	1,910	1,950	2,460	2,440	2,450	2,510	2,470	2,490
24	2,440	2,400	2,420	1,940	1,910	1,930	2,470	2,410	2,450	2,510	2,470	2,500
25	2,430	2,390	2,410	1,930	1,910	1,930	2,460	2,440	2,450	2,510	2,470	2,500
26	2,430	2,400	2,410	1,930	1,900	1,920	2,460	2,440	2,460	2,510	2,490	2,500
27	2,430	2,400	2,420	1,940	1,890	1,920	2,460	2,360	2,400	2,530	2,510	2,520
28	2,430	2,390	2,420	1,980	1,930	1,960	2,400	2,350	2,380	2,560	2,500	2,530
29	2,430	2,370	2,410	1,990	1,960	1,980	2,400	2,370	2,380	2,560	2,520	2,540
30	---	---	---	2,020	1,990	2,000	2,430	2,400	2,410	2,560	2,520	2,540
31	---	---	---	2,040	1,980	2,010	---	---	---	2,560	2,520	2,550
Month	2,440	2,310	2,390	2,440	1,890	2,210	---	---	---	2,560	2,400	2,480

08127000 Elm Creek at Ballinger, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	2,570	2,530	2,550	---	---	---	---	---	---	---	---	---
2	2,570	2,540	2,560	---	---	---	---	---	---	---	---	---
3	2,580	2,550	2,570	---	---	---	---	---	---	---	---	---
4	2,580	2,560	2,570	---	---	---	---	---	---	---	---	---
5	2,590	2,570	2,580	---	---	---	---	---	---	---	---	---
6	2,600	2,580	2,590	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

08127000 Elm Creek at Ballinger, TX—Continued



08127000 Elm Creek at Ballinger, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	28.3	25.5	26.4	18.3	16.1	17.1	13.7	11.6	12.5	7.9	5.2	6.5
2	27.8	25.6	26.5	18.8	15.6	16.7	14.4	12.8	13.8	6.9	4.3	5.7
3	28.6	26.0	27.0	18.2	15.8	16.8	13.6	11.8	12.6	6.4	5.0	5.7
4	28.3	26.0	26.8	18.9	16.2	17.3	14.3	11.2	12.5	7.2	4.9	6.0
5	28.7	25.5	26.6	20.5	16.6	18.3	14.0	11.4	12.7	9.1	6.5	7.3
6	27.4	25.6	26.4	18.2	16.1	16.9	13.4	11.7	12.7	10.1	7.4	8.3
7	27.5	25.3	26.2	16.7	15.5	16.0	14.2	12.5	13.2	10.1	8.4	9.2
8	29.4	25.0	27.0	17.6	15.0	16.1	15.0	13.1	13.9	10.2	8.7	9.7
9	27.5	25.7	26.3	17.8	15.3	16.5	14.0	11.3	12.7	9.7	7.6	8.8
10	26.9	24.6	25.4	17.4	15.9	16.7	11.4	10.6	10.9	10.1	8.1	9.0
11	26.3	24.2	24.9	17.8	16.8	17.3	11.3	10.4	10.9	10.7	7.4	9.0
12	25.5	24.0	24.7	18.4	17.2	17.8	10.7	8.8	9.8	9.8	7.9	8.9
13	25.3	23.7	24.4	20.4	17.5	18.5	11.4	8.0	9.5	10.0	6.7	8.3
14	24.8	23.8	24.2	18.7	17.4	18.0	9.6	9.0	9.4	10.0	6.7	8.3
15	25.8	23.1	24.2	17.6	16.1	16.8	9.4	7.8	9.0	8.3	6.4	7.5
16	24.5	23.1	23.5	17.1	15.5	16.2	8.8	6.9	7.7	8.3	6.4	7.5
17	24.2	22.6	23.3	18.1	15.0	16.0	8.4	6.6	7.5	7.4	5.2	6.4
18	22.6	21.3	22.1	18.1	14.7	15.9	10.3	6.9	8.4	6.5	4.4	5.3
19	22.4	20.2	21.3	16.6	15.2	15.9	9.3	7.5	8.4	6.6	3.9	5.0
20	21.5	20.2	21.0	17.4	15.8	16.6	9.3	7.3	8.4	5.9	3.5	4.8
21	22.4	20.3	21.2	16.8	15.2	16.2	9.7	7.7	8.7	6.3	4.5	5.6
22	21.0	18.3	19.6	15.2	12.4	13.8	9.1	7.3	8.7	5.9	4.0	5.1
23	18.9	17.3	18.0	12.5	11.3	12.0	9.0	6.3	7.5	5.0	4.0	4.4
24	18.6	17.0	17.6	11.3	9.7	10.8	8.5	6.0	7.2	5.0	3.9	4.6
25	18.7	16.1	17.2	9.8	8.7	9.4	7.9	5.6	6.9	5.3	3.7	4.3
26	19.8	15.6	16.8	11.0	7.9	9.4	7.5	6.2	7.1	6.8	3.6	5.0
27	17.8	15.4	16.5	10.6	8.7	9.7	7.7	5.5	6.7	7.3	4.2	5.9
28	18.4	15.5	16.7	12.4	9.0	10.5	7.4	5.8	6.7	8.1	6.8	7.4
29	18.7	15.3	16.6	11.1	9.1	10.0	8.4	5.2	6.8	8.6	7.2	8.2
30	17.4	15.3	16.4	11.9	9.6	10.6	8.7	5.6	7.3	8.6	6.3	7.6
31	19.2	15.5	17.1	---	---	---	8.3	6.2	7.2	7.9	6.3	7.5
Month	29.4	15.3	22.3	20.5	7.9	15.0	15.0	5.2	9.6	10.7	3.5	6.9

08127000 Elm Creek at Ballinger, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	7.9	5.3	6.8	14.9	12.8	14.0	20.9	19.0	20.0	25.1	20.4	22.5
2	8.6	5.9	7.3	15.5	13.9	14.7	20.2	18.6	19.4	24.9	21.1	22.9
3	9.0	7.2	8.0	15.4	11.2	13.1	19.7	19.1	19.5	23.9	20.9	22.3
4	12.9	7.8	9.9	15.1	10.0	12.1	21.1	18.5	19.5	22.3	20.2	21.3
5	10.5	9.4	10.1	14.3	10.6	12.3	19.6	17.8	18.8	22.4	20.8	21.3
6	11.0	7.7	9.4	12.8	9.9	11.2	21.4	17.5	19.5	23.1	20.7	21.7
7	9.7	8.3	9.0	10.6	9.0	9.9	20.9	19.0	20.0	23.4	21.8	22.6
8	10.4	7.6	9.2	10.9	8.6	9.9	23.7	20.0	21.5	24.7	21.2	22.6
9	11.4	8.1	9.8	12.5	9.6	11.0	22.2	20.5	21.4	26.4	21.8	24.0
10	11.5	8.8	10.3	13.7	11.6	12.6	21.7	20.1	20.9	26.4	23.5	25.0
11	12.2	10.6	11.4	14.7	11.7	13.1	---	---	---	25.6	23.3	24.4
12	13.3	10.9	12.0	14.3	11.9	13.3	21.4	19.4	20.3	24.6	22.0	22.9
13	12.4	9.8	11.1	16.3	13.3	14.6	20.8	18.4	19.5	25.9	22.4	23.4
14	12.3	10.5	11.5	17.0	13.6	15.3	19.8	17.6	18.7	26.7	22.0	23.9
15	12.0	9.5	10.8	18.8	14.6	16.4	19.7	17.1	18.4	26.3	22.4	24.1
16	9.7	8.6	9.1	17.3	14.8	16.2	20.2	17.8	18.9	25.3	22.7	24.0
17	11.8	8.4	9.8	19.5	17.1	17.6	21.5	18.9	19.6	23.9	22.5	23.2
18	12.0	8.6	10.3	17.7	14.6	16.1	21.5	17.6	19.5	27.0	21.7	24.1
19	10.7	8.4	9.8	16.6	13.8	15.0	21.0	18.5	19.7	26.4	22.6	24.7
20	12.4	9.8	11.1	15.6	13.3	14.4	22.7	18.6	19.8	28.0	22.6	24.7
21	13.8	9.9	11.5	18.6	13.9	15.7	22.8	20.1	21.1	26.5	23.9	25.0
22	13.9	10.0	12.0	17.9	14.5	16.0	25.7	21.6	23.5	26.5	23.8	25.2
23	14.8	11.1	12.5	16.4	14.8	15.5	23.5	22.5	22.9	28.6	25.1	26.2
24	16.0	11.1	13.3	15.3	13.7	14.6	26.5	21.9	23.3	30.0	25.9	27.1
25	15.3	11.4	13.2	16.4	13.9	15.1	26.4	23.1	24.5	28.6	26.4	27.3
26	13.3	11.4	12.5	19.5	15.8	17.2	26.4	22.6	24.0	28.1	26.2	27.2
27	14.3	10.3	12.1	19.3	17.1	18.2	22.9	20.2	21.6	27.3	26.1	26.6
28	12.7	10.1	11.7	18.5	16.5	17.6	24.1	19.1	21.2	29.7	25.1	26.6
29	16.3	11.0	13.4	17.4	15.8	16.4	21.4	18.9	20.1	28.6	25.3	26.6
30	---	---	---	18.7	16.2	17.0	21.8	19.3	20.5	28.6	25.5	26.8
31	---	---	---	22.9	18.4	20.1	---	---	---	29.0	25.8	27.2
Month	16.3	5.3	10.7	22.9	8.6	14.7	---	---	---	30.0	20.2	24.4

08127000 Elm Creek at Ballinger, TX—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	29.4	26.2	27.6	---	---	---	---	---	---	---	---	---
2	28.9	26.0	27.4	---	---	---	---	---	---	---	---	---
3	28.9	26.2	27.5	---	---	---	---	---	---	---	---	---
4	28.9	26.5	27.6	---	---	---	---	---	---	---	---	---
5	28.7	26.5	27.6	---	---	---	---	---	---	---	---	---
6	28.4	26.9	27.6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

08127000 Elm Creek at Ballinger, TX—Continued

